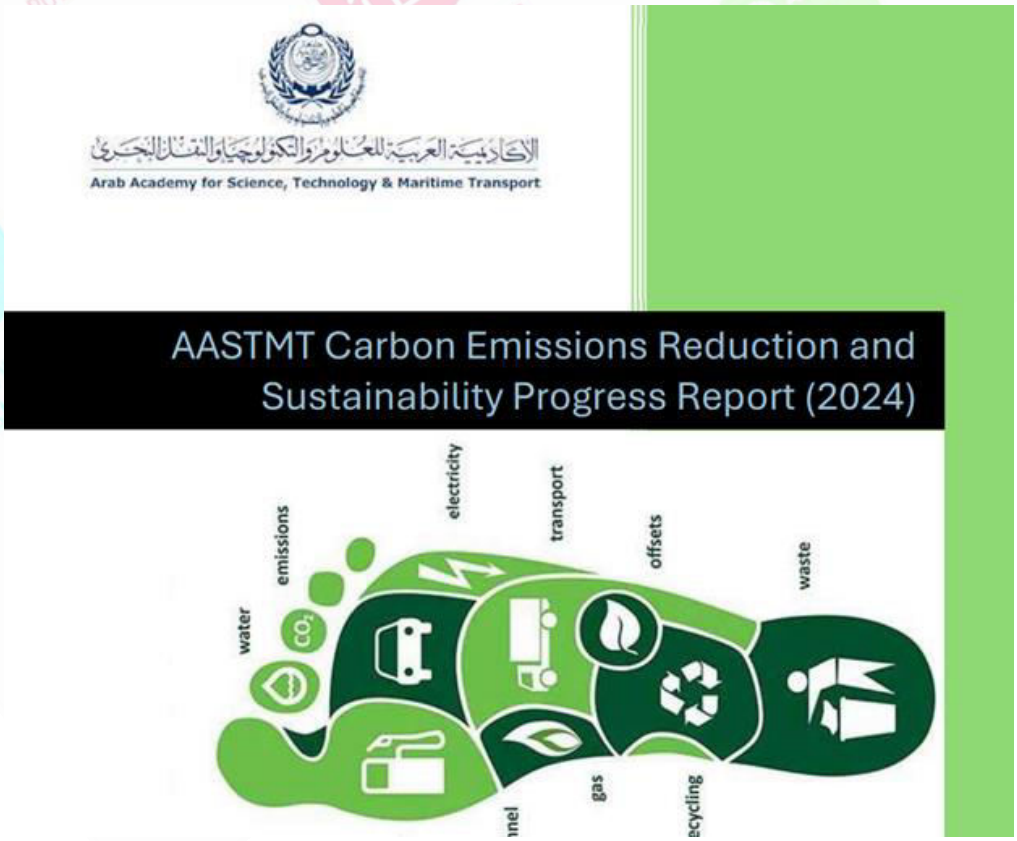
13.4.1 Institutional Commitment to Carbon Neutrality / Climate Action

2023–2024

Under SDG 13.4.1 – Institutional Commitment to Carbon Neutrality and Climate Action, AASTMT demonstrates strong engagement and leadership in integrating climate policies and sustainable practices across its academic and operational frameworks. The Academy's approach aligns with Egypt's National Climate Change Strategy 2050 and global frameworks such as the Paris Agreement and UN Sustainable Development Goals (SDGs).

AASTMT Carbon Emissions Reduction and Sustainability Progress Report (2024)

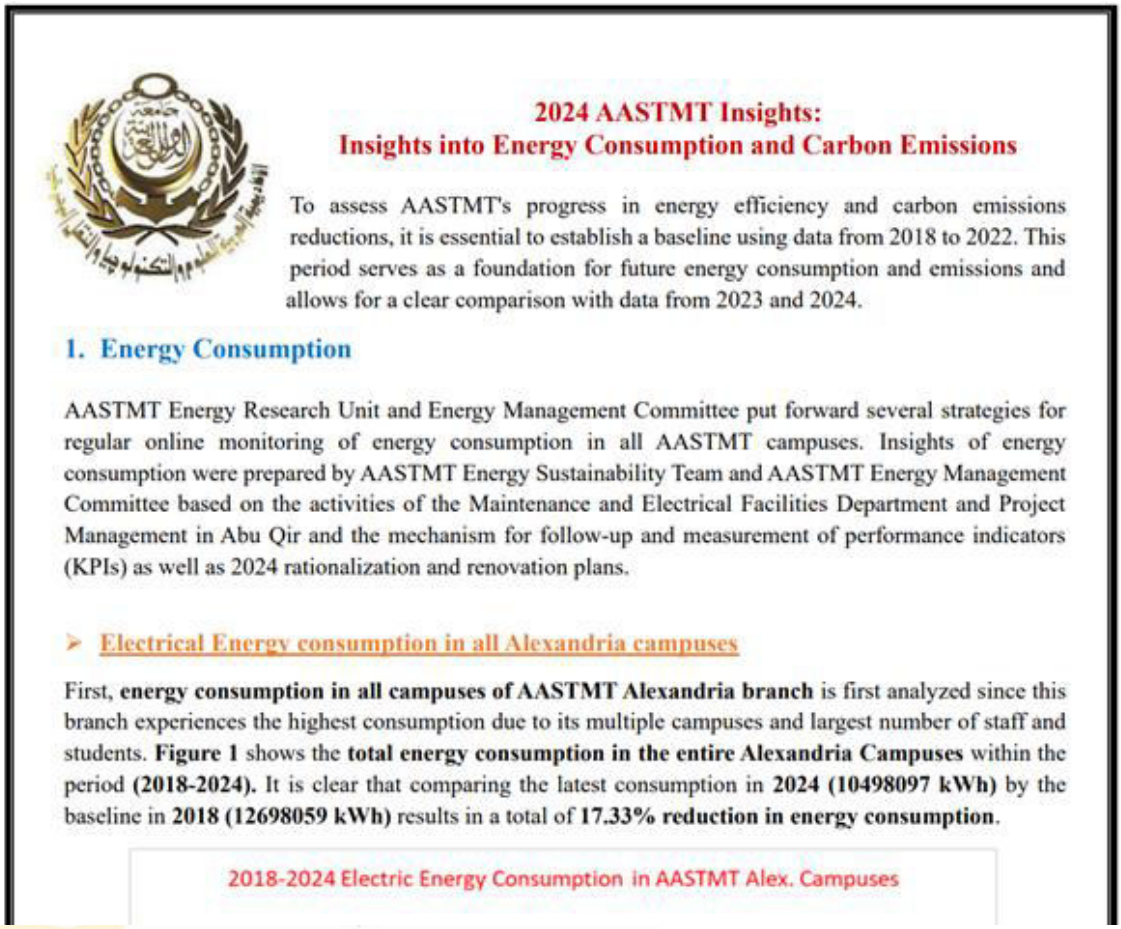
This report, presents AASTMT's progress through 2024 towards reducing its carbon footprint and advancing sustainability goals. It tracks performance under Scopes 1, 2, and select Scope 3 emissions, benchmarked against prior baselines (2018–2021, 2022–2023), and aligns with the university's Climate Action Plan targets—≥ 30% reduction by 2025 and 50% by 2040. The document outlines key drivers of change, including renewable energy expansion, energy efficiency upgrades, waste management, procurement practices, and climate education. In 2024, AASTMT achieved a −3.0% reduction in total emissions from 2023 and −32.8% relative to the 2019 baseline, demonstrating sustained decarbonization momentum and strategic alignment with broader climate action and sustainability objectives.



AASTMT Carbon Emissions Reduction and Sustainability Progress Report (2024) on AASTMT webpage

Renewable Energy & Energy-Use Tracking for all AAST Campuses (2024 Energy Report)

In 2024, the Arab Academy for Science, Technology & Maritime Transport (AASTMT) continued its institutional commitment to climate action, carbon reduction, and energy sustainability through systematic monitoring of electricity consumption and renewable energy deployment across all campuses — including Alexandria, Al-Alamein, Sheraton, Smart (Dokki), Port Said, and Aswan.The report titled "AASTMT Insights: Energy Consumption and Carbon Emissions 2024" presents detailed data on solar photovoltaic (PV) installations, energy-use intensity, and greenhouse gas (GHG) emission trends. It supports the Academy's transition toward low-carbon operations, targeting 25% renewable energy generation by 2025 and 40% by 2040.Energy tracking systems across campuses provide real-time insights for sustainable management, aligning with national energy-efficiency strategies and contributing directly to SDG 13 (Climate Action), SDG 7 (Affordable and Clean Energy), and SDG 11 (Sustainable Cities and Communities).



2024 AASTMT Insights:
Insights into Energy Consumption and Carbon Emissions

To assess AASTMT's progress in energy efficiency and carbon emissions reductions, it is essential to establish a baseline using data from 2018 to 2022. This period serves as a foundation for future energy consumption and emissions and allows for a clear comparison with data from 2023 and 2024.

1. Energy Consumption

AASTMT Energy Research Unit and Energy Management Committee put forward several strategies for regular online monitoring of energy consumption in all AASTMT campuses. Insights of energy consumption were prepared by AASTMT Energy Sustainability Team and AASTMT Energy Management Committee based on the activities of the Maintenance and Electrical Facilities Department and Project Management in Abu Qir and the mechanism for follow-up and measurement of performance indicators (KPIs) as well as 2024 rationalization and renovation plans.

➢ Electrical Energy consumption in all Alexandria campuses

First, **energy consumption in all campuses of AASTMT Alexandria branch** is first analyzed since this branch experiences the highest consumption due to its multiple campuses and largest number of staff and students. **Figure 1** shows the **total energy consumption in the entire Alexandria Campuses** within the period **(2018-2024).** It is clear that comparing the latest consumption in **2024 (10498097 kWh)** by the baseline in **2018 (12698059 kWh)** results in a total of **17.33% reduction in energy consumption**.

2018-2024 Electric Energy Consumption in AASTMT Alex. Campuses

2024 AASTMT Insights: Insights into Energy Consumption and Carbon Emissions on AASTMT webpage

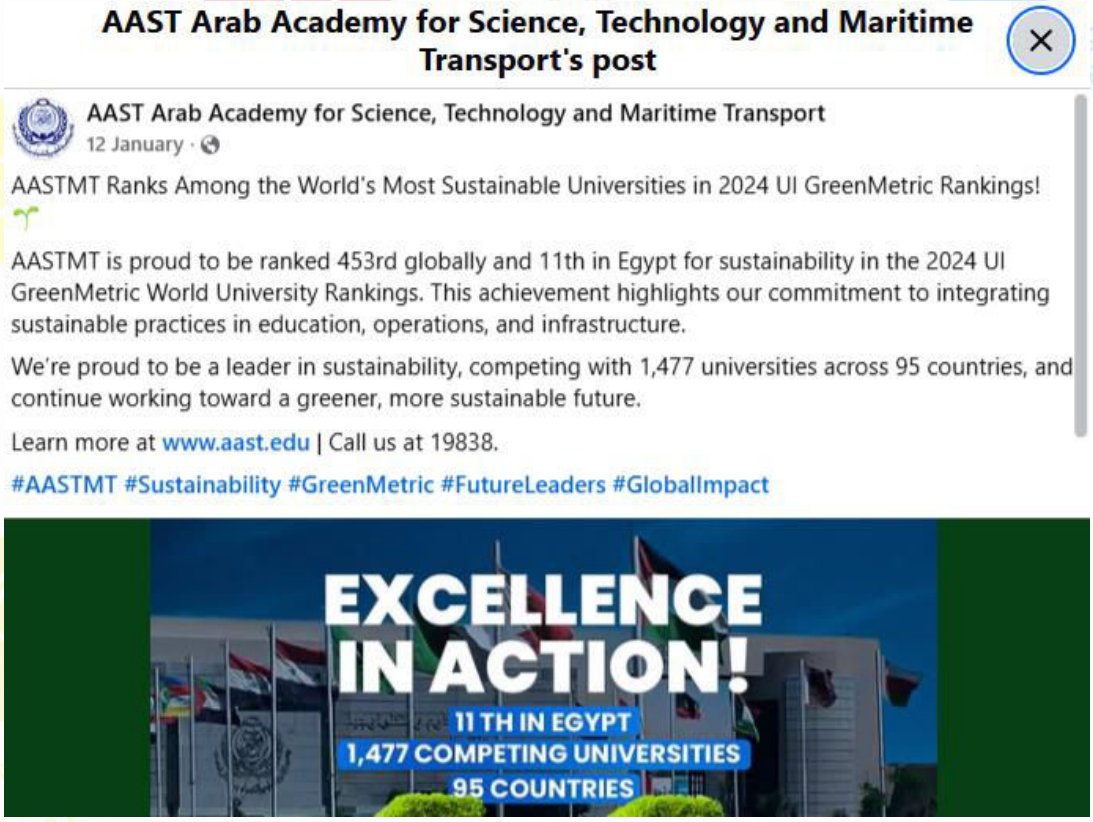
Recognition by QS World Sustainability Ranking 2024

In December 2023, AASTMT was recognized in the **QS Sustainability Rankings 2024** as the only *non-governmental* university in Egypt to be listed. This recognition indicates the institution's commitment and visibility in sustainability among global peers.

AASTMT RECOGNIZED BY QS World Sustainbility Ranking 2024 on AASTMT webpage

UI GreenMetric 2024 Ranking

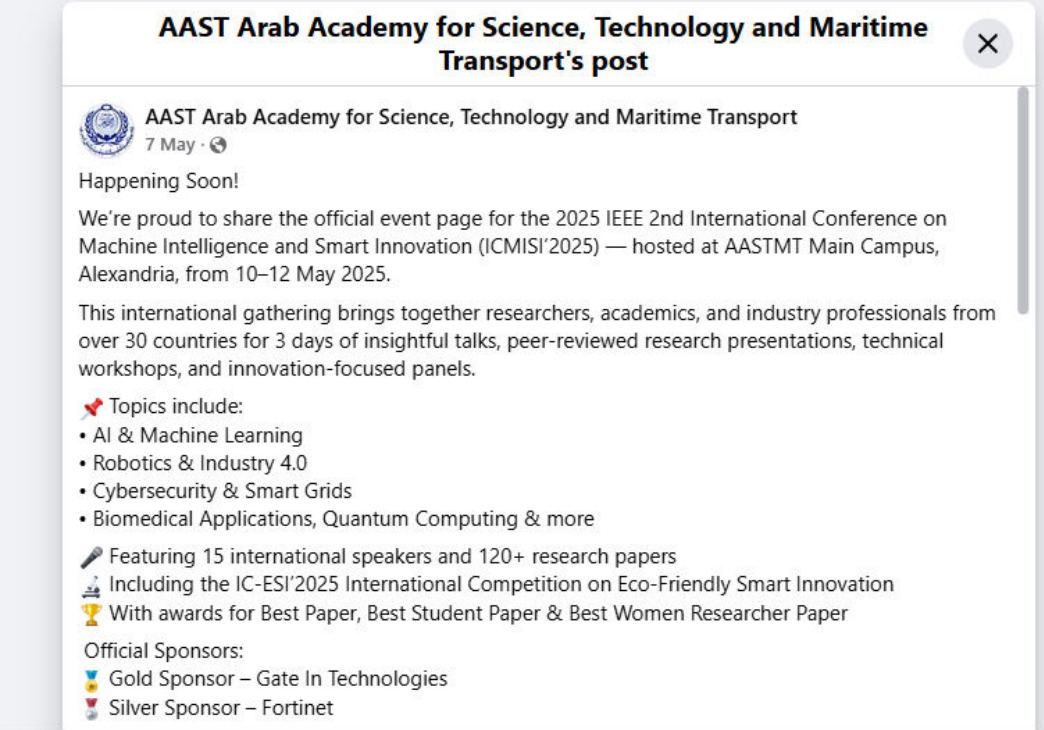
AASTMT was ranked **453rd globally** and **11th in Egypt** in the 2024 UI GreenMetric rankings, which evaluates universities on environmental sustainability metrics (campus, energy, waste, etc.). This ranking demonstrates external validation of institutional commitment to environmental metrics.



AASTMT Ranks Among the World's Most Sustainable Universities in 2024 UI GreenMetric Ranking on facebook

2025 IEEE 2nd Event at AASTMT, Alexandria (10–12 May 2025)

The institution is hosting a major IEEE event in 2025, which often includes tracks relevant to energy, sustainability, and environmental engineering.



AASTMT-2025 IEEE 2nd Event at AASTMT, Alexandria (10–12 May 2025) on facebook

INTERREG (EU) Funding for Projects (2025)

AASTMT obtained funding for five innovative projects under the **EU's INTERREG program**, which often emphasize regional development, environmental sustainability, and transboundary collaboration. While not explicitly labeled climate, such projects often intersect with sustainable development agendas.

INTERREG (EU) Funding for Projects (2025) on AASTMT webpage